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45 Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu 50 60 Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr 65 70 75 80 Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu 85 90 95 Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn 100 105 110 Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Asp Trp Met Val Ala 115 120 125 Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp 130 135 140 Glu Leu Glu Ala Ile Lys Ala Arg Val Arg Glu Met Glu Glu Glu Ala 145 150 155 160 Glu Lys Leu Lys Glu Leu Gln Asn Glu Val Glu Lys Gln Met Asn Met 165 170 175 Ser Pro Pro Gly Asn Ala Gly Pro Val Ile Met Ser Leu Glu Glu 180 185 190 Lys Met Glu Ala Asp Ala Arg Ser Ile Tyr Val Gly Asn Val Asp Tyr 195 200 205 Gly Ala Thr Ala Glu Glu Leu Glu Ala His Phe His Gly Cys Gly Ser 210 215 220 Val Asn Arg Val Thr Ile Leu Cys Asp Lys Phe Ser Gly His Pro Lys 225 230 235 240 Gly Phe Ala Tyr Ile Glu Phe Ser Asp Lys Glu Ser Val Arg Thr Ser 255 Leu Ala Leu Asp Glu Ser Leu Phe Arg Gly Arg Gln Ile Lys Val Ile 260 265 270 Pro Lys Arg Thr Asn Arg Pro Gly Ile Ser Thr Thr Asp Arg Gly Phe 275 285 Pro Arg Ser Arg Tyr Arg Ala Arg Thr Thr Asn Tyr Asn Ser Ser Arg 290 295 300

Ser Arg Phe Tyr Ser Gly Phe Asn Ser Arg Pro Arg Gly Arg Ile Tyr 320 Arg Gly Arg Ala Arg Ala Thr Ser Trp Tyr Ser Pro Tyr 325

<210> 11 <211> 239 <212> PRT <213> Homo sapiens

Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met 10 15

Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala 20 25 30

Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile 35

Phe Ser Ser Gln Pro Gly His Thr Pro His Thr Ala Ala Ser Arg Asp 50 55

Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala 65 70 75

Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Thr 85

Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe  $105\,$ 

Ala Glu Met Ser Arg Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly 115 120

Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp 130 135

Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu 145 150 160

Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp 175

Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn 180

Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro 205

Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala 210 215

Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys 235

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<sup>&</sup>lt;212> PRT <213> Homo sapiens

Met Ser Gln Ser Asn Arg Glu Leu Val Val Asp Phe Leu Ser Tyr Lys <400> 12 Leu Ser Gln Lys Gly Tyr Ser Trp Ser Gln Phe Ser Asp Val Glu Glu 25 30 Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu Ser Glu Met Glu Thr Pro 35 40 45 Ser Ala Ile Asn Gly Asn Pro Ser Trp His Leu Ala Asp Ser Pro Ala 50 55 60 Val Asn Gly Ala Thr Gly His Ser Ser Ser Leu Asp Ala Arg Glu Val 65 70 75 80 Ile Pro Met Ala Ala Val Lys Gln Ala Leu Arg Glu Ala Gly Asp Glu 85 90 Phe Glu Leu Arg Tyr Arg Arg Ala Phe Ser Asp Leu Thr Ser Gln Leu 100 105 110 His Ile Thr Pro Gly Thr Ala Tyr Gln Ser Phe Glu Gln Val Val Asn 115 120 125 Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe 130 135 Ser Phe Gly Gly Ala Leu Cys Val Glu Ser Val Asp Lys Glu Met Gln 145 150 160 Val Leu Val Ser Arg Ile Ala Ala Trp Met Ala Thr Tyr Leu Asn Asp 165 170 His Leu Glu Pro Trp Ile Gln Glu Asn Gly Gly Trp Asp Thr Phe Val 180 185 Glu Leu Tyr Gly Asn Asn Ala Ala Ala Glu Ser Arg Lys Gly Gln Glu 195 200 Arg Phe Asn Arg Trp Phe Leu Thr Gly Met Thr Val Ala Gly Val Val 210 220 Leu Leu Gly Ser Leu Phe Ser Arg Lys 225 230

<210> 13 <211> 211 <212> PRT

<213> Homo sapiens

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Ala Glu Gly Val Ala Ala Pro Ala Asp Pro Glu Met Val Thr Leu Pro
50 ....55... Leu Gln Pro Ser Ser Thr Met Gly Gln Val Gly Arg Gln Leu Ala Ile 65 70 75 Ile Gly Asp Asp Ile Asn Arg Arg Tyr Asp Ser Glu Phe Gln Thr Met 95 Leu Gln His Leu Gln Pro Thr Ala Glu Asn Ala Tyr Glu Tyr Phe Thr 100 105 110 Lys Ile Ala Thr Ser Leu Phe Glu Ser Gly Ile Asn Trp Gly Arg Val 115 120 125 Val Ala Leu Leu Gly Phe Gly Tyr Arg Leu Ala Leu His Val Tyr Gln 130 140 His Gly Leu Thr Gly Phe Leu Gly Gln Val Thr Arg Phe Val Val Asp 145 150 150 Phe Met Leu His His Cys Ile Ala Arg Trp Ile Ala Gln Arg Gly Gly
165 170 Trp Val Ala Ala Leu Asn Leu Gly Asn Gly Pro Ile Leu Asn Val Leu 180 185 190 Val Val Leu Gly Val Val Leu Leu Gly Gln Phe Val Val Arg Arg Phe 195 200 205 Phe Lys Ser 210

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<213> Homo sapiens Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Gly Pro Thr Ser Ser Glu Gln Ile Met Lys Thr Gly Ala Leu Leu Leu Gln Gly Phe Ile Gln 20 25 30 Asp Arg Ala Gly Arg Met Gly Gly Glu Ala Pro Glu Leu Ala Leu Asp 35 40 45 Pro Val Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys 50 60 Arg Ile Gly Asp Glu Leu Asp Ser Asn Met Glu Leu Gln Arg Met Ile 65 70 80 Ala Ala Val Asp Thr Asp Ser Pro Arg Glu Val Phe Phe Arg Val Ala 95 Ala Asp Met Phe Ser Asp Gly Asn Phe Asn Trp Gly Arg Val Val Ala 100 105 110 Leu Phe Tyr Phe Ala Ser Lys Leu Val Leu Lys Ala Leu Cys Thr Lys 115 120 125

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ValPro<br/>130GluLeuIleArgIleMetGlyTrpThr<br/>140LeuAspPheLeuArg<br/>145GluArgLeuLeuGlyTrpIleGlnAspGlnGlyGlyTrpAspGly<br/>160LeuLeuSerTyrPhe<br/>165GlyThrProThrTrpGlnThrValThrIlePhe<br/>175ValAlaGlyValLeuThrAlaSerLeuThrIleTrpLysLysMetGly

<210> 15 <211> 137 <212> PRT <213> Homo sapiens

Asn Gly Met Glu Trp His Glu Met Met Arg Val Met Gly Thr Ile Phe  $20 \hspace{1cm} 25 \hspace{1cm} 30$ 

Glu Lys Lys His Ala Glu Asn Phe Glu Thr Phe Cys Glu Gln Leu Leu 35 40 45

Ala Val Pro Arg Ile Ser Phe Ser Leu Tyr Gln Asp Val Val Arg Thr 50 55 60

Val Gly Asn Ala Gln Thr Asp Gln Cys Pro Met Ser Tyr Gly Arg Leu 65 70 75 80

Ile Gly Leu Ile Ser Phe Gly Gly Phe Val Ala Ala Lys Met Met Glu 85 90 95

Ser Val Glu Leu Gln Gly Gln Val Arg Asn Leu Phe Val Tyr Thr Ser 100 105 110

Leu Phe Ile Lys Thr Arg Ile Arg Asn Asn Trp Lys Glu His Asn Arg 115 120 125

Ser Trp Asp Asp Phe Met Thr Leu Gly 130